STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ORANGE COUNTY

LOCATION: I-40 FROM ALAMANCE/ORANGE COUNTY LINE TO ORANGE/DURHAM COUNTY LINE

TYPE OF WORK: GUARDRAIL END TERMINAL UPGRADE

STATE	STATE	SHEET NO.	TOTAL SHEETS					
N.C.	W-	-5601 DJ		1	4			
STAT	E PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION					
501	38.1.115	HSIP-0040 (024)		P.E.				
501	38.3.115	HSIP-0040 (024)		CONST.				

START EB 0+00	70	85 40	START WB 0+00
GRAPHIC SCALES DESIGN	DATA Y PR	OJECT LENGTH	Prepared in the Office of:

GENERAL NOTES:

2012 SPECIFICATIONS EFFECTIVE: 01-17-2012

REVISED: 07-30-2012

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

> EFF. 01-17-2012 REV. 10-30-2012

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh. N. C.. Dated January. 2012 are applicable to this project and by reference hereby are considered a part of these plans:

DIVISION 8 - INCIDENTALS

862.01 Guardrail Placement 862.02 Guardrail Installation

DIVISION OF HIGHWAYS

ENGINEER

ROADWAY DESIGN

12/16/2015

NOT TO SCALE

LENGTH ROADWAY TIP PROJECT W-5601 DJ = 19.2 MILES

NOTE: NO SURVEY CONDUCTED.

RIGHT OF WAY DATE:

2012 STANDARD SPECIFICATIONS

NA

CHRIS SMITHERMAN, P.E.

PROJECT ENGINEER

SEAL

Chris Smitherman --- EA7926E3CDA446A...



LETTING DATE:

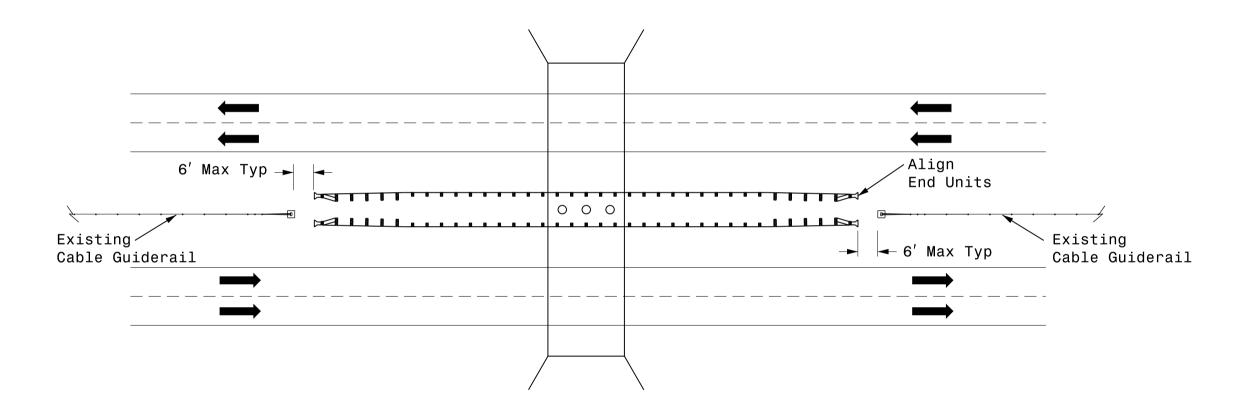
5601

STATIONS ARE APPROXIMATE.

FEB 18, 2016

SIGNATURE:

NOTE: MM 0.00 STARTS AT ORANGE COUNTY LINE IN EITHER DIRECTION



Typical 1

1-Drange NW-5601 DJ 1-40 Guardrail/I-40 Guardrail typ.dgn

COMPUTED BY:	Tim Jackson	DATE:	11/20/2
CHECKED BY:	J.A. Sour	DATE:	12/9/2

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO
50138.3.115	3

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	LOCATION MM		APPROACH OR		LENGTH	ANCHORS								GUARDRAIL	REMARKS	
LINE	IVIIVI		TRAILING END	LT, RT, M	STRAIGHT	XI MOD	ΧI	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	REMOVAL		
I-40 WB	0.00	Durham/Orange County Line														
I-40 WB		SR 1734 (Erwin Rd)Median Bridge Support Column	APPROACH	M	25				1					37.5		
I-40 WB		SR 1734 (Erwin Rd)Median Bridge Support Column	TRAILING	М	12.5				1					37.5		
I-40 WB	0.98		APPROACH	RT				1						37.5		
I-40 WB		NC 86 Median Bridge Support Column	APPROACH	M	12.5				1					37.5		
		NC 86 Median Bridge Support Column	TRAILING	M	12.5				1					37.5		
I-40 WB		NC 86 Median Bridge Support Column	APPROACH	RT				1						37.5		
I-40 WB	4.60		APPROACH	RT				1						37.5		
I-40 WB		Bridge over SR 1725 (Mill House Rd)	APPROACH	RT				1						37.5		
I-40 WB		Bridge over SR 1725 (Mill House Rd)	APPROACH	M	12.5				1					37.5		
		Bridge over SR 1725 (Mill House Rd)	TRAILING	M	25				1					37.5		
I-40 WB	6.48	Fill	APPROACH	RT				1						37.5		
I-40 WB	6.90	SR 1723 (New Hope Church Rd) Median Bridge Support Column	APPROACH	M	25				1					37.5		
I-40 WB		SR 1723 (New Hope Church Rd) Median Bridge Support Column	TRAILING	M	37.5				1					37.5		
I-40 WB	7.11		APPROACH	RT				1						37.5		
I-40 WB	7.40	Fill	APPROACH	RT				1						37.5		
I-40 WB	8.95	Bridge over SR 1009 (Old NC 86)/Fill	APPROACH	RT				1						37.5		
I-40 WB	8.97	Bridge over SR 1009 (Old NC 86)	TRAILING	М	12.5				1					37.5		
I-40 WB		SR 1006 (Orange Grove Rd) Median Bridge Support Column	APPROACH	M	25				1					37.5		
I-40 WB		SR 1006 (Orange Grove Rd) Median Bridge Support Column	TRAILING	M	37.5				1					37.5		
I-40 WB		Bridge over I 85/Fill	APPROACH	RT				1						37.5		
I-40 WB		OH Sign	APPROACH	RT				1						37.5		
I-40 WB		Bridge over SR 1120 (Mt Willing Rd)	APPROACH	RT				1						37.5		
I-40 WB	14.37		APPROACH	RT				1						37.5		
I-40 WB	15.78		APPROACH	RT				1						37.5		
I-40 WB	16.50	OH Sign	APPROACH	RT				1						37.5		
I-40 WB	16.93	OH Siğn	APPROACH	RT				1						37.5		
			I-40	WB TOTAL	237.5			15	11					975		

OMPUTED BY:	Tim Jackson	DATE:	11/20/20
CHECKED BY:	J.A. Sour	DATE:	12/9/20

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO
50138.3.115	4

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 35

		FROM LAST SECTION OF PARALLEL GUARDRAIL TO END FROM BEGINNING OF TAPER TO END OF GUARDRAIL	O GOARDRAIL			00	AKL			50		VI /1.	<u> </u>	NG = NON-GATING IMPACT ATTENUATOR TYPE 350)
URVEY LINE	LOCATION MM		APPROACH OR LOCATION TRAILING END LT, RT, M			VI	GRA	ANCH	IORS	1	GUARDRAIL REMOVAL				
LIIVE			TRAILING END	21,101,10	STRAIGHT	XI MOD	XI 350		XIII	CAT-1	MOD	BIC	REMOTAL		
-40 EB	0+00	Alamance/Orange County Line													
I-40 EB		Fill Section (E of SR 1114 (Buckhorn Rd))	APPROACH	RT			1						37.5		
I-40 EB		Fill Section	APPROACH	RT			1						37.5		
I-40 EB		Fill Section	APPROACH	RT			1						37.5		
I-40 EB		Underpass	APPROACH	RT			1						37.5		
I-40 EB	5.62	Underpass	APPROACH	RT			1						37.5		
I-40 EB	8.26	SR 1006 (Orange Grove Rd) Median Bridge Support Column	APPROACH	М	25			1					37.5		
I-40 EB		SR 1006 (Orange Grove Rd) Median Bridge Support Column	TRAILING	М	37.5			1					37.5		
I-40 EB	9.05		APPROACH	RT	37.3		1	'					37.5		
I-40 EB	10.08		APPROACH	RT			1		+				37.5		
I-40 EB	10.59		APPROACH	RT		+	1						37.5		
I-40 EB	11.28		APPROACH	RT		+	1		1		1		37.5		
I-40 EB	11.90		APPROACH	RT			1						37.5		
I-40 EB	12 23	SR 1723 (New Hope Church Rd) Median Bridge Support Column	APPROACH	M	25			1					37.5		
I-40 EB		SR 1723 (New Hope Church Rd) Median Bridge Support Column	TRAILING	M	37.5			1					37.5		
I-40 EB	12.57		APPROACH	RT	07.0		1						37.5		
I-40 EB	12.91		APPROACH	RT			1						37.5		
I-40 EB	13.06		APPROACH	RT			1						37.5		
I-40 EB		Bridge over SR 1725 (Mill House Rd)	TRAILING	M	25		· ·	1					37.5		
I-40 EB	14.32		APPROACH	RT	20		1						37.5		
I-40 EB	14.69		APPROACH	RT			1						37.5		
I-40 EB	14.95		APPROACH	RT			1						37.5		
I-40 EB		NC 86 Median Bridge Support Column	TRAILING	M	25			1					37.5		
		SP 1734 (Erwin Rd) Median Bridge Support											0.10		
I-40 EB	18.31	Column	TRAILING	M	37.5			1					37.5		
	<u>'</u>		<u> </u>	0 EB TOTAL	212.5		16	7					862.5		
RAMPS		I-85 SB TO I-40 EB @ I-40 WB OVERPASS	APPROACH												
RAMPS		I-85 SB TO I-40 EB, APPROACH TO BRIDGE	APPROACH	RT			1						37.5		
RAMPS		OVER I-40/85 I-85 SB TO I-40 EB, APPROACH TO BRIDGE	APPROACH	LT			1						37.5		
RAMPS		OVER I-40/85 I-40 WB TO SR 1120 (MT WILLING RD)	APPROACH	RT LT			1						37.5 37.5		
RAMPS		I-40 EB TO I-85 CONNECTOR	APPROACH	RT			1						37.5		
RAMPS		I-40 WB TO SR 1114 (BUCKHORN RD)	APPROACH	RT			1						37.5		
RAMPS		SB SR 1114 (BUCKHORN RD) RIGHT TURN LANE TO I-40 WB	APPROACH	RT			1						37.5		
	<u> </u>		R.A	MPS TOTAL	0		7	0				İ	262.5		
				AND TOTAL	450		0.0	40					0400		
			GI	RAND TOTAL	450		38	18					2100		